

FIG. 1A
(PRIOR ART)

100
↓

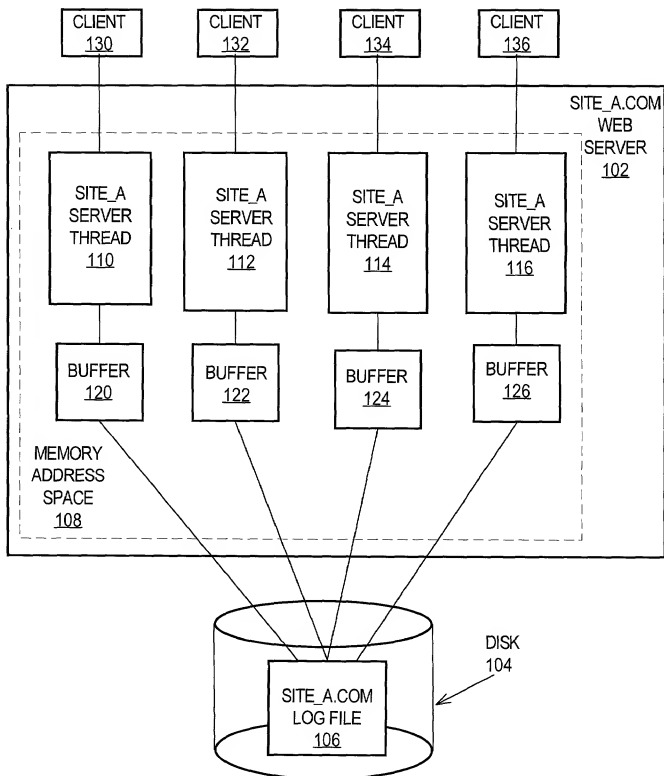


FIG. 1B
(PRIOR ART)

150
↓

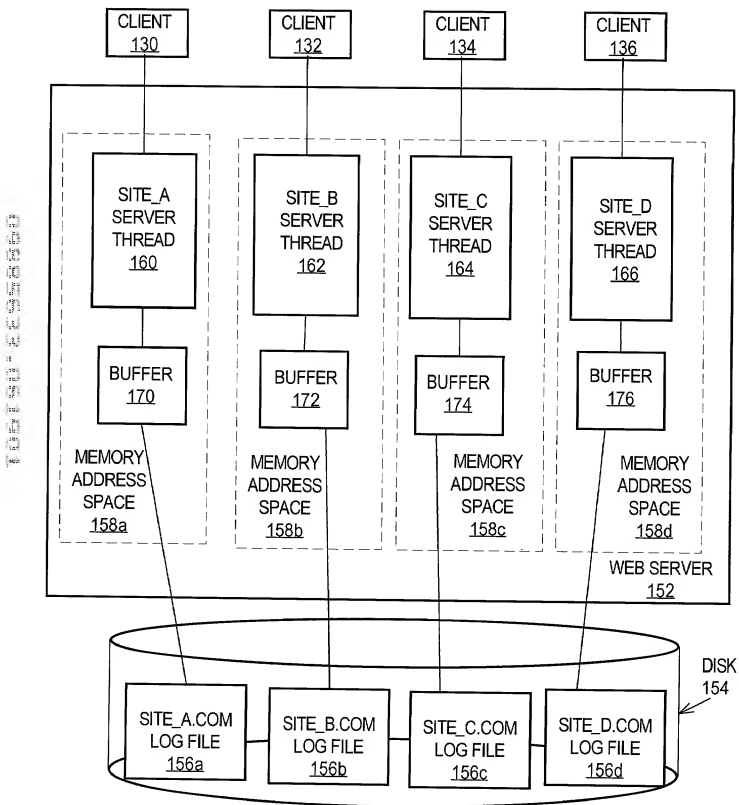


FIG. 2A

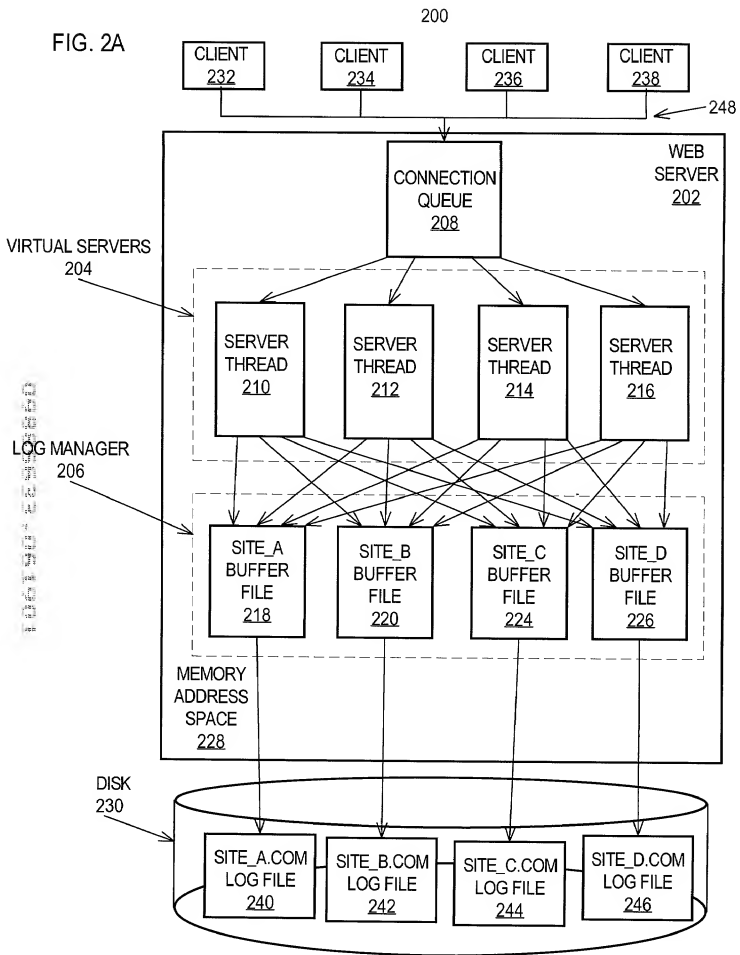


FIG. 2B

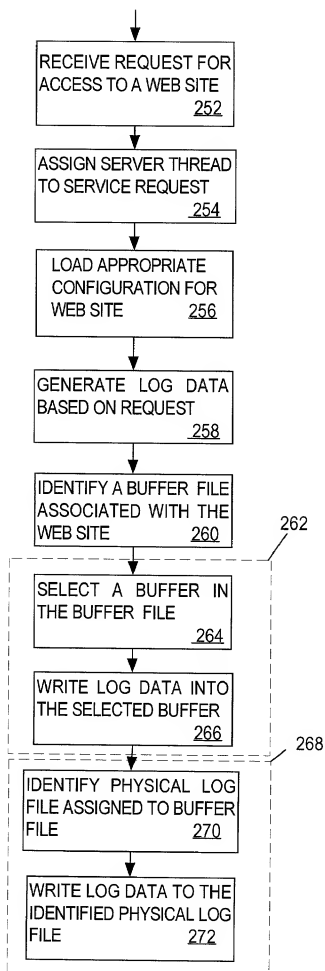
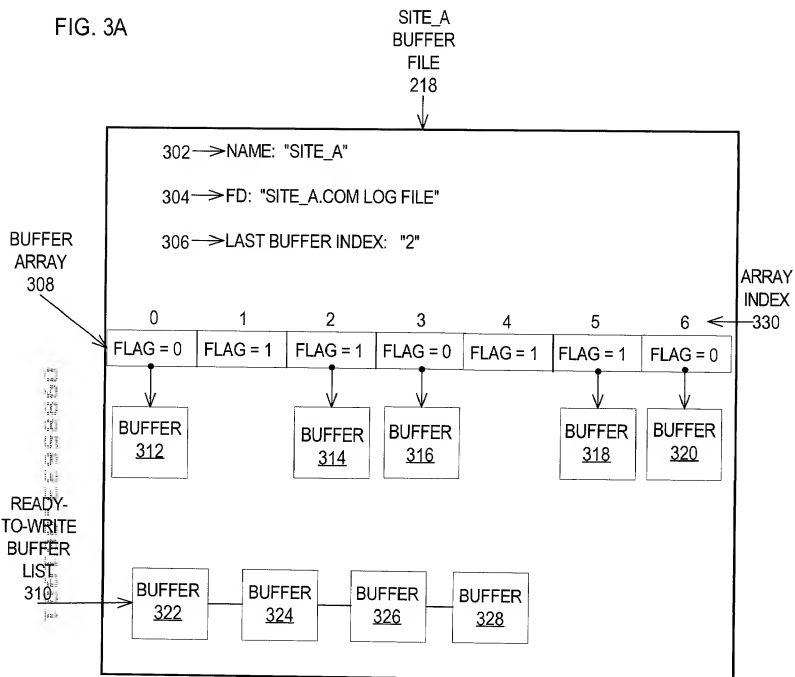


FIG. 3A



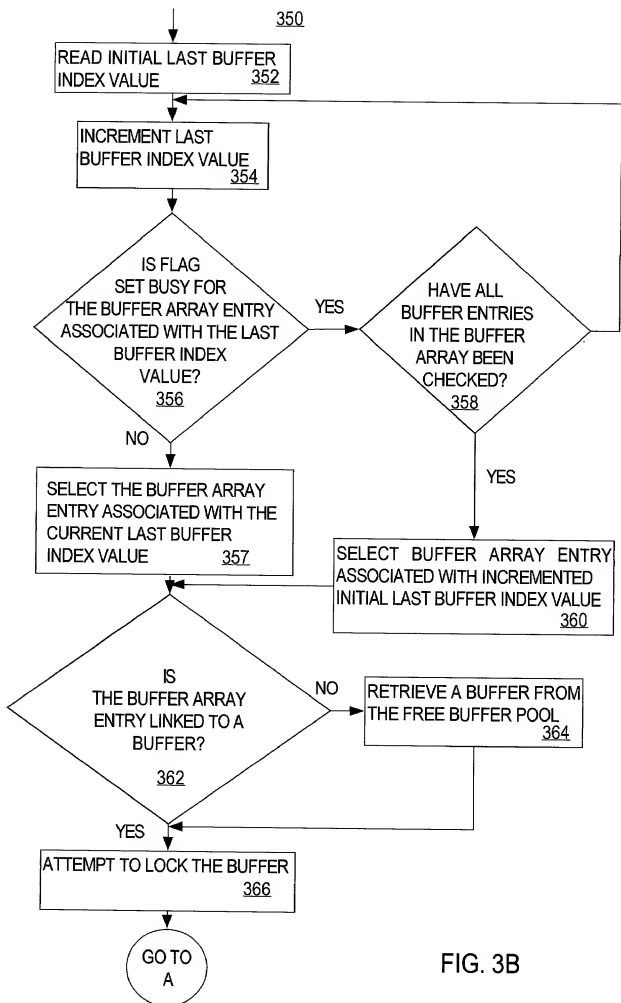


FIG. 3B

FIG. 3C

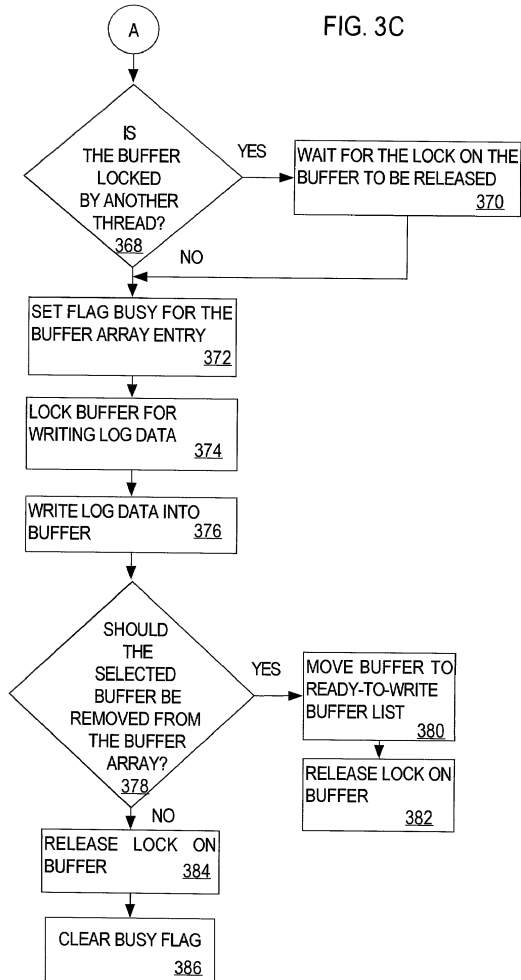
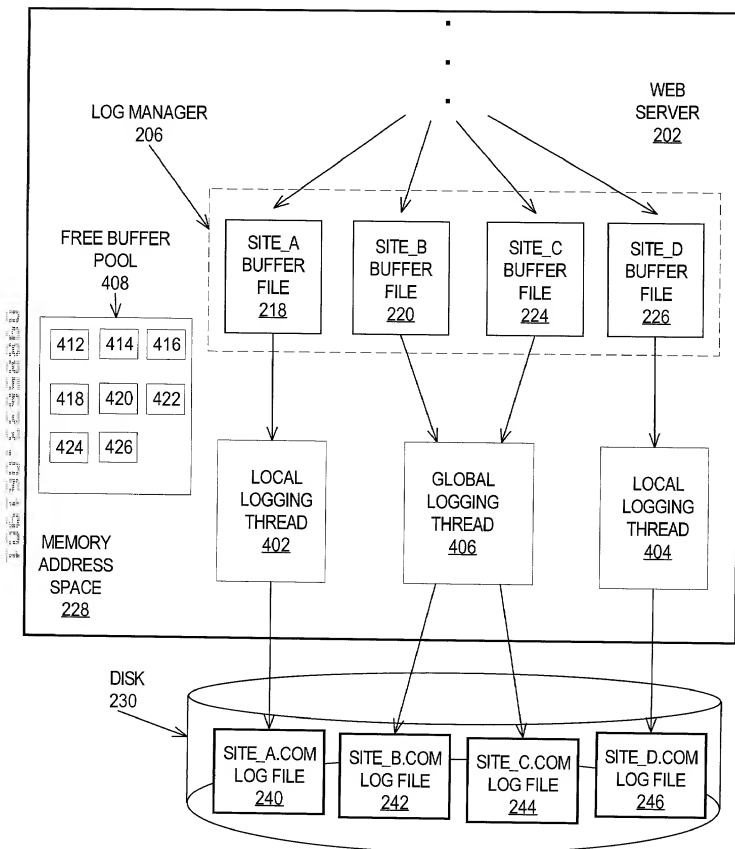


FIG. 4A



DETERMINE THAT THE CONTENTS OF
A BUFFER ASSOCIATED WITH A
BUFFER FILE NEEDS TO BE WRITTEN
TO DISK 452

IDENTIFY THE PHYSICAL LOG FILE
THAT IS ASSOCIATED WITH THE
BUFFER FILE 454

OBTAIN A LOCK ON A BUFFER WITHIN
THE READY-TO-WRITE BUFFER LIST
OF THE BUFFER FILE 456

WRITE THE LOG DATA IN THE LOCKED
BUFFER INTO THE CORRESPONDING
PHYSICAL LOG FILE 458

SHOULD
THE
BUFFER BE
INSERTED BACK INTO
THE BUFFER ARRAY
OF THE BUFFER
FILE? 460

ADD BUFFER TO FREE BUFFER POOL
462

IDENTIFY ENTRY IN THE
BUFFER ARRAY FOR
INSERTING THE BUFFER 464

INSERT BUFFER INTO
BUFFER ARRAY 466

CLEAR BUSY FLAG FOR
BUFFER ARRAY ENTRY 468

DOES
ANOTHER BUFFER
NEED TO BE
WRITTEN TO
DISK? 470

YES

NO

END

FIG. 4B

Fig. 5

